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EXAMINER

XIAO, KE

ART UNIT

PAPER NUMBER

2629

NOTIFICATION DATE

DELIVERY MODE

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ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary	Application No. 09/746,778	Applicant(s) ERICSON, PETTER	
	Examiner Ke Xiao	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-42 and 45-63 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2-42 and 45-63 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>12/20/07</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

Claim 42 recites the limitation "computer-readable medium encoded with a computer program comprising instructions for causing the computer to determine". The specification does not provide antecedent basis for the term "computer-readable medium". However, it does provide antecedent basis for the term "storage medium."

Appropriate corrections are required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2-42 and 45-63 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Marc Dymetman and Max Copperman, Intelligent Paper (herein referred to as Dymetman).

Regarding **Claim 61**, Dymetman teaches a system for information management (Dymetman, Fig. 1 pg. 393) comprising:

a central unit (Dymetman, Fig. 1 pgs. 393 and 394 central server); and
a plurality of user units which are arranged to record and send information to the central unit, wherein particulars are stored in the central unit about a plurality of regions (Dymetman, pgs. 396 Figure of Europe and 397), each of which represents an area on at least one imaginary surface (Dymetman, imaginary surface are the digital pages), wherein the imaginary surface represents physical positions in a unique and continuous manner (Dymetman, physical surfaces are pieces of intelligent paper), and wherein the physical positions are coded by a position coding pattern and wherein the position coding pattern is incapable of being present in its entirety on any single base (Dymetman, pg. 397 there can be 64-bit unique pages of intelligent paper, which are incapable of being present on any single base),

each of the user units is arranged to record information which comprises at least one position on the imaginary surface and to send the information to the central unit (Dymetman, pg. 397, besides the unique ID of the sheets of intelligent paper, there are coordinates for each page as well), and

the central unit is arranged, in response to the receipt of the information from a user unit, to identify to which region the at least one position belongs and to determine how the information is to be managed based on the region affiliation (Dymetman pg.

397, each physical page corresponds to a unique digital page which is the region and then the data is managed according to the unique digital page).

Regarding **Claim 62**, Dymetman further teaches that the imaginary surface is an electronic representation of the position coding pattern (Dymetman, pg. 396-397, Fig. Europe).

Regarding **Claim 63**, Dymetman further teaches a plurality of bases, wherein each base is printed with a different subset of the position coding pattern, and wherein each user unit is configured to record the at least one position by means of subset of the position coding pattern on the base (Dymetman, pg. 396-397 a great many pages can be printed each a subset of the position coding pattern because of the unique identification bits).

Regarding **Claim 2**, Dymetman further teaches that each of the regions particulars are stored in the central unit about an owner of the region (Dymetman, pg. 396-397 each page has a unique ID code and information about that ID code and associated digital page is stored at a central unit).

Regarding **Claim 3**, Dymetman further teaches that rules for each region are stored in the central unit for how the information which is identified as belonging to the region is to be managed (Dymetman, pg. 396-397, 399-401 different rules or applications for each region are also stored for each unique page).

Regarding **Claim 4**, Dymetman further teaches that central unit is arranged to forward the information which is received from the user unit to a recipient (Dymetman,

pg. 400 meeting agenda is forwarded to everyone who is part of the meeting including the meeting organizer).

Regarding **Claim 5**, Dymetman further teaches that the recipient is defined by the region affiliation (Dymetman, pg. 400 meeting agenda is clearly only forwarded to those individuals who have a specific region affiliation).

Regarding **Claim 6**, Dymetman further teaches that the recipient is one of the user units (Dymetman, pg. 400 meeting agenda is forwarded to everyone who is part of the meeting including the meeting organizer).

Regarding **Claim 7**, Dymetman further teaches that the central unit is arranged to attach a predetermine data packet for the recipient, which data packet is determined by the region affiliation (Dymetman, pg. 400 data is clearly defined by the intended recipient which is defined by the region affiliation).

Regarding **Claim 8**, Dymetman further teaches that the central unit is arranged to store the information which is received from the user unit in a location which is indicated by the region affiliation (Dymetman, pg. 400-401 data stored at the central unit is clearly defined by the region affiliation which is given by the identification number).

Regarding **Claim 9**, Dymetman further teaches that the central unit is arranged to process the information which is received from the user unit in a way which is defined by the region affiliation (Dymetman, pg. 399-401 applications are all different depending on the identification of the user unit).

Regarding **Claim 10**, Dymetman further teaches that at least one position is a plurality of positions which define characters in which the central unit is arranged to convert the received positions to at least one character (Dymetman, pg. 401 handwritten messages can be provided which means different positions can be grouped together to make up different characters).

Regarding **Claim 11**, Dymetman further teaches that each of the user units has a pen point (Dymetman, pg. 401 pen pointer).

Regarding **Claim 12**, Dymetman further teaches that each of the user units has a unique user identify and is arranged to include the user identity in the information to the central unit (Dymetman, pg. 397 unique identifiers for each user unit).

Regarding **Claim 13**, Dymetman further teaches that a plurality of products from which the at least one position is recorded (Dymetman, pg. 397 there are many unique intelligent paper user units).

Regarding **Claim 14**, Dymetman further teaches that a subset of a position coding pattern, which codes a large number of position on the imaginary surface is reproduced on each of the products, the positions which are recorded by the user units being positions on the imaginary surface and being recorded by means for the subset of the position coding pattern on the product (Dymetman, pg. 397 each unique intelligent paper is a subset of a physical surface coding which is related to an imaginary surface).

Regarding **Claim 15**, Dymetman further teaches that the position coding pattern is constructed of symbols and each position on the imaginary surface is coded by a

predetermined number of symbols, and in which each user unit is arranged to continually record the symbols to provide a description of the movement in the form of coordinates when it is moved across the subset in order to generate the information (Dymetman, pg. 397, each unique intelligent paper has a predetermined number of symbols on it and these are read continuously by a pointer which translates the symbols into identifiers and coordinates).

Regarding **Claim 16**, Dymetman further teaches that each user unit is arranged to record the information by recording at least two coordinates in coded form for each position, to decode the coded coordinates and to include at least certain of the coordinates in the information to the central unit (Dymetman, pg. 397, each unique intelligent paper has a predetermined number of symbols on it and these are read continuously by a pointer which translates the symbols into identifiers and coordinates).

Regarding **Claim 17**, Dymetman teaches a system for information management (Dymetman, pg. 392-393), comprising:

a central unit and a plurality of user units which are arranged to record and send information to the central unit (Dymetman, pg. 393-394, central unit is used by the intelligent paper to communicate instructions and data); and

a plurality of products each of which has a subset of a position coding pattern, which codes a large number of positions on at least one imaginary surface, wherein the imaginary surface represents physical positions in a unique and continuous manner, and wherein the physical positions are coded by the position coding pattern and wherein the

position coding pattern is incapable of being present in its entirety on any single product (Dymetman, pg. 397, each unique intelligent paper has a predetermined number of symbols on it and these are read continuously by a pointer which translates the symbols into identifiers and coordinates, all of the unique pieces would not be able to fit on any single product), further wherein

particulars are stored in the central unit about a plurality of regions, each of which represents an area on the imaginary surface (Dymetman, pg. 397 unique identifiers for each user unit wherein each one represents a different piece of the imaginary surface because of their unique identifiers), wherein

each of the user units is arranged to record information which comprises at least one position on the imaginary surface by means of the subset of the position coding pattern on the product and to send the information to the central unit (Dymetman, pg. 397, each unique intelligent paper has a predetermined number of symbols on it and these are read continuously by a pointer which translates the symbols into identifiers and coordinates), and wherein

the central unit is arranged, in response to the receipt of the information from a user unit, to identify to which region the at least one position belongs and to determine how the information is to be managed based on the region affiliation (Dymetman pg. 397, each physical page corresponds to a unique digital page which is the region and then the data is managed according to the unique digital page).

Regarding **Claim 18**, Dymetman teaches a central unit for information management (Dymetman, pg. 392-393), comprising:

a memory storing particulars a plurality of regions, each region corresponding to an area on an imaginary surface (Dymetman, pg. 393-394, central unit stores information regarding each piece of intelligent paper and any associating rules or data), wherein the imaginary surface represents physical positions in a unique and continuous manner, and represents a physical area which is incapable of being present in its entirety on any single base (Dymetman, pg. 396-397, physical surfaces are pieces of intelligent paper represent an imaginary space in a unique and continuous manner and can't be on any single base 2^{64} number of intelligent paper pieces), and the memory further containing instructions for determining, in response to the receipt of information which contains at least one position on the imaginary surface, to which region the at least one position belongs, and determining how the information is to be managed based on the region affiliation (Dymetman, pg. 399-401 depending on the application the central server will have different rules and data uniquely associated with each piece of intelligent paper).

Regarding **Claim 19**, Dymetman further teaches that for each of the regions stores particulars about an owner of the region (Dymetman, pg. 399-401 depending on the application the central server will have different rules and data uniquely associated with each piece of intelligent paper as well as the owner of the region).

Regarding **Claim 20**, Dymetman further teaches that each of the regions stores rules for how information which is identified as belonging to the region is to be managed (Dymetman, pg. 399-401 depending on the application the central server will have different rules and data uniquely associated with each piece of intelligent paper).

Regarding **Claim 21**, Dymetman further teaches forwarding the information to a recipient (Dymetman, pg. 400 meeting agenda is forwarded to everyone who is part of the meeting including the meeting organizer).

Regarding **Claim 22**, Dymetman further teaches attaching a predetermined file with the information for the recipient, which file is determined by the region affiliation (Dymetman, pg. 400 meeting agenda is forwarded to everyone who is part of the meeting including the meeting organizer).

Regarding **Claim 23**, Dymetman further teaches storing the information in a location which is indicated by the region affiliation (Dymetman, pg. 400-401 information is stored to a specific location depending application which directly dependent on the region affiliation).

Regarding **Claim 24**, Dymetman further teaches processing the information in a way which is defined by the region affiliation (Dymetman, pg. 399-401 different applications and there by different region affiliation determine how information is processed by the central server).

Regarding **Claim 25**, Dymetman further teaches converting the received position into at least one character (Dymetman, pg. 401 many position are be interpreted as a character).

Regarding **Claim 26**, Dymetman teaches a method for management of information which is recorded using at least one user unit (Dymetman, pg. 393-394 many user units and central management), comprising:

recording information by each user unit which includes at least one position on at least one imaginary surface, wherein the imaginary surface represents physical positions in a unique and continuous manner (Dymetman, pg. 396-398 pointer technology to read symbols on the intelligent paper to correspond to a unique position in a imaginary surface), and represents a physical area which is incapable of being present in its entirety on any single base (Dymetman pg. 397);

receiving the information at a central unit, wherein the central unit contains particulars about a plurality of regions, further wherein each region represents an area on the at least one imaginary surface (Dymetman, pg. 396-397, 399-401 different rules or applications for each region are also stored for each unique page).

Regarding **Claim 27**, Dymetman further teaches that for each of the regions stores particulars about an owner of the region (Dymetman, pg. 397 unique identification code tells the central server exactly who owns the region).

Regarding **Claim 28**, Dymetman further teaches that each of the regions stores rules for how information which is identified as belonging to the region is to be

managed (Dymetman, pg. 396-397, 399-401 different rules or applications for each region are also stored for each unique page).

Regarding **Claim 29**, Dymetman further teaches forwarding the information which is received from the user unit to a recipient (Dymetman, pg. 400 meeting agenda is forwarded to everyone who is part of the meeting including the meeting organizer).

Regarding **Claim 30**, Dymetman further teaches that the recipient is defined by the region affiliation (Dymetman, pg. 400 meeting agenda is forwarded to everyone who is part of the meeting including the meeting organizer).

Regarding **Claim 31**, Dymetman further teaches that the central unit sends the information which is received from the user unit back to the user unit (Dymetman, pg. 400 meeting agenda is forwarded to everyone who is part of the meeting including the meeting organizer).

Regarding **Claim 32**, Dymetman further teaches that the central unit attaches a predetermined data packet for the recipient, which data packet is determined by the region affiliation (Dymetman, pg. 400 meeting agenda is forwarded to everyone who is part of the meeting including the meeting organizer).

Regarding **Claim 33**, Dymetman further that the central unit stores the information which is received from the user unit in a location which is indicated by the region affiliation (Dymetman, pg. 400-401 product catalogue and hotel reservations).

Regarding **Claim 34**, Dymetman further teaches that the central unit process the information which is received from the user unit in a way which is defined by the

region affiliation (Dymetman, pg.399-401 different applications process information differently based on region affiliation).

Regarding **Claim 35**, Dymetman further teaches that the at least one position is a plurality of positions which define characters, the central unit converting the received positions to at least one character (Dymetman, pg. 401 several positions together can make up characters).

Regarding **Claim 36**, Dymetman further teaches that the user unit has a unique user identity and includes the user identity in the information which is sent to the central unit (Dymetman, pg 397 ID codes are sent to the central unit to uniquely identify the intelligent paper).

Regarding **Claim 37**, Dymetman further teaches that at least one position is recorded on a product (Dymetman, pg. 401 pen pointer can record on the product).

Regarding **Claim 38**, Dymetman further teaches that each of the user units has a pen point which makes a mark on the product during the recording of the at least one position (Dymetman, pg. 401 pen pointer can record on the product).

Regarding **Claim 39**, Dymetman further teaches that the product has a subset of a position coding pattern which codes a large number of positions on the imaginary surface, the positions which are recorded by the user units being positions on the imaginary surface and being recorded by means of the subset of the position coding pattern on the product (Dymetman, pg. 396-397 a great many pages can be printed each a subset of the position coding pattern because of the unique identification bits).

Regarding **Claim 40**, Dymetman further teaches that the position coding pattern is constructed of symbols and each position on the imaginary surface is coded by predetermined number of symbols, each user unit, when is it moved across the subset to generate the information, continually recording the symbols to provide a description of the movement in the form of coordinates (Dymetman, pg. 397, each unique intelligent paper has a predetermined number of symbols on it and these are read continuously by a pointer which translates the symbols into identifiers and coordinates).

Regarding **Claim 41**, Dymetman further teaches that the user unit records the information by recording for each position at least two coordinates in coded form, by decoding the coded coordinates and by including at least certain of the coordinates in the information to the central unit (Dymetman, pg. 397).

Regarding **Claim 42**, Dymetman teaches a computer readable medium encoded with a computer program comprising instruction for causing the computer to determine, in response to the receipt of information which contains at least one position on an imaginary surface (Dymetman, pg. 392-394), wherein the imaginary surface represents physical positions in a unique and continuous manner, and represents a physical area which is incapable of being present in its entirety on any single base (Dymetman, pg. 396-397, physical surfaces are pieces of intelligent paper represent an imaginary space in a unique and continuous manner and can't be on any single base 2^{64} number of intelligent paper pieces), to which region on the imaginary surface the at least one position belongs, and to determine how the information is to be managed based on the

region affiliation (Dymetman, pg. 399-401 the central unit decides how to manage the user information depending on the application and the region affiliation).

Regarding **Claim 45**, Dymetman teaches a method for managing information based upon position associated with a machine readable code (Dymetman, pg. 392-394) comprising:

recording information using at least one user unit, wherein the information includes at least one position on a two dimensional coordinate reference, further wherein the two dimensional coordinate reference represents physical positions in a unique and continuous manner, and represents a physical area which is incapable of being present in its entirety on any single surface (Dymetman, pg. 396-397);

sending the information to a central unit, wherein the central unit contains particulars about a plurality of regions, and further wherein each region represents an area on the two dimensional coordinate reference (Dymetman, pg. 392-394, 399-401);

identifying which region the at least one position belongs in response to the receipt of the information (Dymetman, pg. 397 unique identification number); and

managing the information based upon rules associated with the identified region, wherein different regions are associated with different rules (Dymetman pg. 399-401).

Regarding **Claim 46**, Dymetman further teaches that the machine readable code comprises a plurality of symbols, each symbol contributing to the coding of at least two unique positions on the two dimensional coordinate reference (Dymetman, pg. 396-397 unique coordinate positions are encoded using symbols).

Regarding **Claim 47**, Dymetman further teaches that each symbol comprises a nominal position and a mark (Dymetman, pg. 397 ID code and position code).

Regarding **Claim 48**, Dymetman further teaches that the mark is displaced from the nominal position (Dymetman, pg. 397 they are using different bits when means they are displaced from each other).

Regarding **Claim 49**, Dymetman further teaches storing particulars in the central unit which associated an owner with a region (Dymetman, pg. 397 unique identification number defines owner).

Regarding **Claim 50**, Dymetman further teaches forwarding information by the central unit to a recipient (Dymetman, pg. 400 forwarding of information to other users and back to oneself).

Regarding **Claim 51**, Dymetman further teaches storing the information in the central unit in a location specified by the rules (Dymetman, pg. 400-401).

Regarding **Claim 52**, Dymetman further teaches that the information includes a unique user identity associated with the user unit (Dymetman, pg. 397).

Regarding **Claim 53**, Dymetman teaches an apparatus for managing information based upon machine readable code associated with products which are not collocated (Dymetman, pg. 392-397 unique user input devices not collocated with the server or each other), comprising:

at least one user unit configured to record information including at least one position described in a two dimensional coordinate reference, further wherein the two

dimensional coordinate reference represents physical positions in a unique and continuous manner, and represents a physical area which is incapable of being present in its entirety on any single surface (Dymetman, pg. 397 and 401 coordinates are recorded as well as physical recordation and the many unique pages can not be on any single base); and

a central unit, configured to receive the information from the at least one user unit, which identifies a region on the two dimensional coordinate reference based upon the at least one position, and manages the information based upon rules associated with the identified region, wherein different regions are associated with different rules (Dymetman, pg. 397-401 depending on the ID code which is the region association defining the rules to apply to the information being received).

Regarding **Claim 54**, Dymetman teaches that the machine readable code comprises a plurality of symbols, each symbol contributing to the coding of at least two unique positions on the two dimensional coordinate reference (Dymetman, pg. 397 coordinates and many unique positions in a two dimensions).

Regarding **Claim 55**, Dymetman further teaches wherein each symbol comprises a nominal position and a mark (Dymetman, pg. 397 ID code and position code).

Regarding **Claim 56**, Dymetman further teaches that the mark is displaced from the nominal position (Dymetman, pg. 397 they are using different bits when means they are displaced from each other).

Regarding **Claim 57**, Dymetman further teaches that the central unit stores particulars which associate an owner with a region (Dymetman, pg. 397 unique identification number defines owner).

Regarding **Claim 58**, Dymetman further teaches that the central unit forwards information to a recipient (Dymetman, pg. 400 forwarding of information to other users and back to oneself).

Regarding **Claim 59**, Dymetman further teaches that the central unit stores the information in a location specified by the rules (Dymetman, pg. 400-401).

Regarding **Claim 60**, Dymetman further teaches that the user unit includes a unique user identifier in the information sent to the central unit (Dymetman, pg. 397).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ke Xiao whose telephone number is (571) 272-7776. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2629

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sumati Lefkowitz/
Supervisory Patent Examiner, Art Unit 2629

/Ke Xiao/
Examiner, Art Unit 2629